Y1878 Fiberoptic Illuminator

1 GENERAL SYSTEM DESCRIPTION

1.1 System Features

The **Y1878** 300-Watt Xenon light source described herein is specifically designed for use as an illumination source for fiber optic illumination applications. As a result, the system shall have the following general features:

- 1.1.1 4 port flush mount design turret for fiber optic light cable connection to fit ACMI, Storz, Wolf, Olympus industry standard fibers
- 1.1.2 Simple lamp module replacement with no tools required
- 1.1.3 Simple power "ON" switch separate from the lamp ignition switch
- 1.1.4 Standard lamp safety features
- 1.1.5 Low noise generation
- 1.1.6 Very high brightness light output.
- 1.1.7 Even output beam profile
- 1.1.8 Compact footprint
- 1.1.9 Quick re-strike in the event that the device shuts down from overheating
- 1.1.10 Single world-wide universal power supply

2 INTENDED USAGE

2.1 General

This 300 W Xenon light source shall be used as an illumination source to provide light to fiber optic cables or light guides. Atlas Specialty Lighting assumes no responsibility for suitability for any particular application of the lightsource or any consequential damages associated with the use of the lightsource.

2.2 Personnel

2.2.1 Any trained personnel that has familiarized themselves with the product by reading the operation manual provided

2.3 Sterilization/Disinfection

2.3.1 The light source may be wiped-down with hospital approved disinfectants (e.g. 10% clorox/90% water solution) applied with a damp cloth.

3 ASSOCIATED EQUIPMENT

3.1 Fiber optic light guides (cables) not provided by Atlas Specialty Lighting

		100 - 240 VAC, 50/60Hz universal, 6.0A input	
.2		Located on rear panel, dual fuses	
.3	Line cord	IEC320, 6', US and Europe options	
erform	nance, Features & Warranty		
1	Light Output	- 2000 Lumens nominal initial output through 6mm glass rod at full rated power	All light output specifications refer to "system only" performance. Ligh
		- Spectral output 380 - 750nm nominal	output via optical fibers or other optical components may vary.
		- ≤ 8% instability p-p through 6mm glass rod @ 0-100Hz	
		- Beam profile to have "smooth" distribution with no shadows or sharp peaks	
.2	Overtemperature Prorection	Automatic shut down in the event of overheating	Fans operate when AC power is on and are independent of lamp stat
_	O III P / A O I		Francisco de la constanta de l
.3	Over Heat Recovery / Auto Cool	Unit to become fully operational within approximately 3 minutes after thermal shut down	Fans will remain on in the event of thermal shut down when power is
		& all obstructions to air flow removed at environmental temperature of ≤ 22C (72F)	Lamp must be switched on by using lamp ON / OFF switch located o
	Fiber Ontic Connection Sefety Feeture	- Lamp will not ignite unless a fiber optic cable is fully inserted into the active port on the	front panel
2.4	Fiber Optic Connection Salety Feature	- camp will not ignite unless a liber optic cable is fully inserted into the active port on the turnet	active port when power is ON
		- Lamp power is cut or blocked if fiber optic cable is removed from active port to prevent	· · · · · · · · · · · · · · · · · · ·
		accidental light leakage	
	Lamp Power Supply	· ·	
_		···	Language if actions were climbtly from standard DE200C 40E
5	Lamp Module	Y1879 "low profile" CERMAX 300 Watt lamp module, incorporating proprietary type	Lamp specifications may vary slightly from standard PE300C-10F
_	Laws Madula Depleasement	lamp	I ama and a amount door "interlegical" for angels, I ama an according
6	Lamp Module Replacement	By easy access to lamp module via latched hinged door. No tools required.	Lamp replacement door "interlocked" for safety. Lamp power will be
_	1 1 %	500 have to 500/ of 1211-1 and the same to 15 and 1	when door is open
.7	Lamp Life	- 500 hours to 50% of initial output specification measured through 6mm glass rod	
		> 1000 hours tunical managered through Cooperations and	
		- ≥ 1000 hours typical measured through 6mm glass rod	
8		12 months exlcuding lamp	
ser Int	terface / Control		
1	User Instructions	Operation manual to be included with every lightsource	
2	Standby Switch	Located on front panel, illuminated when ON	Lamp ignition not automatic with standby switch ON
	,	Located on front panel, liamminated when one Legal Lamp ON status indicated by LED on front panel. Illuminated	
.3	Lamp ON / OFF Switch	when lamp is ON.	When lamp ON button is depressed to turn lamp on, the "lamp on LE flashes until such time as the lamp ignites. If the lamp fails to ignite in
		when lamp is ON.	approximately 4 seconds (possible fault condition) the system will time
			and the lamp ON button will need to be depressed again to initiate la
			ignition.
	Fiber Ontic Adentes	A month work with WOLF CTORY ACMLOLVMBUC north	~
.4	Fiber Optic Adapter	- 4 port turret with WOLF, STORZ, ACMI, OLYMPUS ports	Turret rotated to select one fiber port for illumination at a time. Turret
			rotation will be resitant enough to prevent non-deliberate rotation by pulling fiber cables
_	Links Assessable a Obsesse	Ocata III dha a canbara a battara an faratara al	pulling liber cables
.5	Light Attenuation Shutter	- Controlled by membrane buttons on front panel.	
		- 2 Buttons for relative intensity increments (up and down)	
		- 1 button for shutter fully closed	
		- 1 button for shutter fully open	
		- Relative level of illumination indicated by a digital numeric display (blue numerals)	
		Troider to the or manimation indicated by a digital frame to display (side frame disp	
3.6	Lamp Hour Counter	- Lamp hour mode is selected while "Lamp Hours" button located on front panel is	Lamp hour counter also records number of time the lamp hours have
		depressed.	been reset. This number is displayed when lamp hours are re-set.
		- While lamp hour mode is selcted the number of elapsed lamp hours will be displayed	' ´ '
		on the relative brightness display.	
		- Elapsed lamp hours will be displayed up to 999 hours.	
		- Elapsed lamp hours displayed can be reset by end user	
٠.	Contract of the Contract of th	- Elapsed lamp flours displayed can be reset by end user	
echar	ical & Environmental		
1	Dimensions	Height 5.0" x Width 16.9" x Depth 13.8" (nominal)	Designed for modular expansion
2	Weight	20lbs (9kg) nominal	
3	-	Atlas Specialty Lighting art work and colors	
.4	Touch Temperature	. , , ,	
	·		
.5	Sterilization	The light source may be wiped-down with hospital approved disinfectants (e.g. 10%	
		clorox/90% water solution) applied with a damp cloth (must not be wet)	
.6	Operating Temperature	6C to 40C	
.7	Storage Temperature	-20C to + 85C	
.8	-	10 - 85% relative humidity, non-condensing	
		1 Atmosphere nominal	
.9		·	
11	Audible Noise		
2	Shipping, Shock & Vibration	per ISTA 1A	
3	Cooling	Vents to direct airflow toward the back of the unit	
	tory Approvals		
_		-IEC 60601-1:1998+A1:1991+A2:1995+A1.3:1997	
.1	Compliance to standards		
		-UL 60601-1:2003	
		-EN 60601-1:1990+A1:1993+A2:1995+A13:1997	
		-EN 60601-1-2:2001	
		-CAN / CSA C22.2 No. 601.1/M90(R1997),B/98,S1-94	
	Dogulator Madriago	- UL mark	
		- UL IIIdIK	
.2	Regulatory Markings	OH are also	
.2	Regulatory Markings	- CUL mark - CE mark	







